

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS,
METABOLISM, AND DIGESTIVE DISEASES

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

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DIABETES LITERATURE INDEX

(By Authors, Hierarchy, and by Keywords in the Title)

A monthly publication of the
National Institute of Arthritis, Metabolism, and Digestive Diseases

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THE UNIVERSITY OF CHICAGO

THE DIVISION OF THE PHYSICAL SCIENCES

DEPARTMENT OF CHEMISTRY

1950

RESEARCH REPORT

NO. 100

BY

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PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

Scientific Communications Office
Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

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SUCCESSFUL INTRA-SPLENIC TRANSPLANTATION OF SYNGENEIC AND ALLOGENEIC ISOLATED PANCREATIC ISLETS. Finch DR, Wise PH, Morris PJ *Diabetologia* 13: 195-9, May 77 (Eng) DL/77OCT413

THE DEVELOPMENT OF AN ARTIFICIAL ENDOCRINE PANCREAS AND ITS APPLICATION IN RESEARCH AND CLINICAL INVESTIGATION. Albisser AM, Leibel BS, Zingg W, Botz CK, Marliass EB, Denoga A, Zinman B *Horm Metab Res suppl* 7: 87-94, 1977 (Eng) DL/77OCT452

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1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED

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1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED

[SECRETION OF INSULIN AND OF GLUCAGON BY THE PERFUSED PANCREAS OF NEWBORN RATS: EFFECT OF VASOACTIVE INTESTINAL PEPTIDE VIP] Vauclin N, Gerspach C, Bataille D, Jarrouse C, Rosselin G *C R Acad Sci [D] (Paris)* 284: 1207-10, 28 Mar 77 (Fre) DL/77OCT363

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PHYSIOLOGIC ROLE OF SOMATOSTATIN. INSULIN RELEASE FROM RAT ISLETS TREATED BY SOMATOSTATIN ANTISERUM. Taniguchi H, Utsumi M, Hasegawa M, Kobayashi T, Watanabe Y, Murakami K, Seki M, Tsutou A, Makimura H, Sakoda M, Baba S *Diabetes* 26: 700-2, Jul 77 (Eng) DL/77OCT409

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1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED

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1.F.7.3 DIABETES, CONGENITAL

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

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2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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2.E.1.1 CORTICOTROPIN

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ABSTRACT; EVALUATION STUDIES;
FRUCTOSE (urine); GLUCOSE TOLERANCE
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PRESSURE; BLOOD SUGAR (metabolism);
BLOOD UREA NITROGEN; BONE AND BONES
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(metabolism); CREATININE (blood, urine);
DIAGNOSIS, COMPUTER ASSISTED;
ELECTROLYTES (blood); ERYTHROPOIESIS;
HEMATOCRIT; HEMODIALYSIS; HUMAN;
KIDNEY FAILURE, CHRONIC (therapy);
KIDNEY FAILURE, CHRONIC (blood,
mortality); KIDNEY (transplantation); LIPIDS
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CONDUCTION; TIME FACTORS; TISSUE
DONORS; TRANSPLANTATION,
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MODELS, ANIMAL; GLOMERULAR
FILTRATION RATE; HYPERSENSITIVITY
(immunology); INSULIN (blood); MACACA;
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ADIPOSE TISSUE (cytology, metabolism); ANIMAL; BODY FLUIDS (metabolism); EPIDIDYMIS; EXTRACELLULAR SPACE (metabolism); IN VITRO; INTRACELLULAR FLUID (metabolism); MALE; RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADMINISTRATION, ORAL; ADOLESCENCE; ADULT; BICARBONATES (blood); BLOOD SUGAR (analysis); BLOOD (drug effects); COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy); DIPHOSPHOGLYCERIC ACIDS (blood); ERYTHROCYTES (metabolism); HUMAN; HYDROGEN-ION CONCENTRATION (physiology); INSULIN (therapeutic use); MALE; OXYGEN (blood); OXYHEMOGLOBIN (metabolism); PARTIAL PRESSURE; PHOSPHORUS (blood); PLACEBOES; SODIUM ETIDRONATE (pharmacodynamics).

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LANGERHANS (drug effects, metabolism); MALE; OUABAIN (pharmacodynamics); PHENOXYBENZAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; SODIUM (metabolism); TETRODOTOXIN (pharmacodynamics); VERATRIDINE (pharmacodynamics).

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ADULT; CASE REPORT; DIABETES MELLITUS (chemically induced); DIABETIC NEPHROPATHIES (diagnosis, etiology); HUMAN; HYDRONEPHROSIS (pathology); IGG; KIDNEY GLOMERULUS (immunology, ultrastructure); KIDNEY (transplantation); MALE; POSTOPERATIVE COMPLICATIONS (etiology); PREDNISONE (adverse effects); PYELONEPHRITIS (pathology); SERUM ALBUMIN; TIME FACTORS; TRANSPLANTATION, ALLOGENEIC.

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ADENOSINE TRIPHOSPHATASE (metabolism); ANIMAL; BACTERIORHODOPSIN; CATTLE; CYTOCHROME OXIDASE; ELECTRIC CONDUCTIVITY; ELECTRIC STIMULATION; HYDROGEN-ION CONCENTRATION (physiology); LIPOSOMES; MEMBRANE

POTENTIALS; MEMBRANES, ARTIFICIAL; MITOCHONDRIA, MUSCLE (enzymology); MYOCARDIUM; OLIGOMYCIN (pharmacodynamics); PHOSPHOLIPIDS; PROTEOLIPIDS.

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ADULT; AMNIOTIC FLUID (analysis, metabolism); ANTIGENS; FEMALE; GESTATIONAL AGE; HUMAN; INSULIN (analysis, physiology); PALMITIC ACIDS (analysis); PHOSPHATIDYLCHOLINES (analysis, biosynthesis); PREGNANCY; PULMONARY SURFACTANT (metabolism); SPHINGOMYELINS (analysis).

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ANIMAL; BLOOD SUGAR (metabolism); BLOOD-BRAIN BARRIER; BRAIN (drug effects, metabolism); CYTOCHALASIN B (pharmacodynamics); DOGS; GLUCOSE (metabolism); IN VITRO; KINETICS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADIPOSE TISSUE (drug effects, metabolism); AMPHETAMINES (pharmacodynamics); ANIMAL; CATECHOLAMINES (antagonists & inhibitors); GLUCOSE (metabolism); HUMAN; IN VITRO; LIPIDS (metabolism); RATS; RESPIRATION (drug effects).

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ANIMAL; CHOLESTEROL (blood); HEPARIN; KINETICS; LIPOPROTEINS, VLDL (blood); MALE; PHOSPHOLIPASE (blood); PHOSPHOLIPIDS (blood); RATS; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ALLOXAN DIABETES (metabolism); ANIMAL; CELL MEMBRANE PERMEABILITY; CELL MEMBRANE (metabolism); FOOD DEPRIVATION; GLUCONEOGENESIS (drug effects); GUINEA PIGS; LIVER (metabolism); MALE; PYRIDINES (metabolism); QUINOLINIC ACIDS (metabolism, pharmacodynamics); RATS; SPECIES SPECIFICITY; TIME FACTORS.

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ANIMAL; DIABETES MELLITUS (blood, chemically induced, enzymology); GLUCONEOGENESIS; GUINEA PIGS; KIDNEY CORTEX (enzymology); LIVER (enzymology); MALE; PHOSPHOENOLPYRUVATE CARBOXYKINASES (metabolism); STARVATION (blood, enzymology); STREPTOZOTOCIN.

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AMNIOTIC FLUID (analysis); CHOLESTEROL (analysis); FETAL DEATH (metabolism); HUMAN; INFANT, NEWBORN; INFANT, PREMATURE; INFANT, PREMATURE, DISEASES (metabolism); INFANT, SMALL FOR GESTATIONAL AGE (injuries); LIPIDS (analysis); PHOSPHOLIPIDS (analysis); PHOSPHORUS (analysis); RESPIRATORY DISTRESS SYNDROME (metabolism).

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AUTOPSY; BASAL METABOLISM; DIABETIC NEPHROPATHIES (pathology); ENGLISH ABSTRACT; GLOMERULONEPHRITIS (pathology); HUMAN; KIDNEY DISEASES (pathology); KIDNEY GLOMERULUS (ultrastructure); KIDNEY (ultrastructure); MICROATOMY; PYELONEPHRITIS (pathology).

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INTESTINE, SMALL (drug effects, metabolism); PENICILLINS (pharmacodynamics); SECRETORY RATE (drug effects); STREPTOMYCIN (pharmacodynamics).

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LEUCINE (metabolism); MALE; PROINSULIN
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control); MALABSORPTION SYNDROMES (diet
therapy); MALE; MIDDLE AGE; PECTINS
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RECURRENT CORNEAL EDEMA WITHOUT OCULAR HYPERTENSION, PIGMENT DEGENERATION COMBINED WITH DEAFNESS, PROGRESSIVE DYSTROPHY OF THE OUTER EYE-MUSCLES IN A PATIENT WITH PROPORTIONAL DWARFISM AND DIABETES MELLITUS (AUTHORS TRANSL.) Kafer O *Albrecht von Graefes Arch Klin Ophthalmol* 202: 153-62, 22 Apr 77 (Ger) DL/77OCT703

ADULT; BLEPHAROPTOSIS (complications); CASE REPORT; CORNEA; DEAFNESS (complications, diagnosis); DIABETES MELLITUS (complications, diagnosis); DWARFISM (complications, diagnosis); EDEMA (complications, diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; INTRAOCULAR PRESSURE; MUSCULAR DYSTROPHY (complications); MYOPIA (complications); OCULOMOTOR MUSCLES; RECURRENCE; RETINAL DEGENERATION (complications, diagnosis); SYNDROME.

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ADRENAL GLANDS (drug effects); ANIMAL; BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); COMPARATIVE STUDY; DIURESIS (drug effects); EDEMA (drug therapy); ENGLISH ABSTRACT; FEMALE; FLUCORTOLONE (pharmacodynamics); GRANULOMA (drug therapy); LIVER GLYCOGEN (metabolism); MALE; ORGAN WEIGHT; POTASSIUM (urine); PREGNADIENEDIOLS (metabolism, pharmacodynamics); RATS; RECEPTORS, HORMONE; SODIUM (urine); SPLEEN (drug effects); STEROIDS, FLUORINATED (metabolism, pharmacodynamics); THYMUS GLAND (drug effects, metabolism); VALERATES.

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ANIMAL; BINDING, COMPETITIVE; CELL MEMBRANE (metabolism); DANSYL COMPOUNDS; GANGLIOSIDES (pharmacodynamics); GLYCOPROTEINS (metabolism); GONADOTROPINS, CHORIONIC (metabolism); KINETICS; MALE; RATS; RECEPTORS, HORMONE (drug effects, metabolism); SPECTROMETRY, FLUORESCENCE; TESTIS (metabolism); THYROTROPIN (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Lee HA

PLANNING INTRAVENOUS NUTRITION, TECHNIQUES AND PRINCIPLES. Lee HA *S Afr Med J* 50: 1725-33, Oct 76 (Eng) *DL/77OCT129

ALCOHOL, ETHYL (adverse effects); AMINO ACIDS; EMULSIONS; FRUCTOSE (adverse effects); GLUCOSE (metabolism); HUMAN; LACTATES (blood); OILS; PARENTERAL FEEDING; PARENTERAL HYPERALIMENTATION; PATIENT CARE PLANNING; POSTOPERATIVE CARE; WOUNDS AND INJURIES (metabolism).

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AMINO ACIDS (blood); ANIMAL; CHOLESTEROL (blood); CHOLESTEROL, DIETARY (adverse effects); FATTY ACIDS (blood); FEMALE; HYPERCHOLESTEREMIA (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; MOLECULAR WEIGHT; MONKEYS; PHOSPHATIDYLETHANOLAMINES (blood); PHOSPHOLIPIDS (blood); RHESUS MONKEYS.

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ADOLESCENCE; CASE REPORT; DIABETES MELLITUS (complications, diagnosis, drug therapy); FEMALE; GROWTH DISORDERS (etiology); HEPATOMEGALY (etiology, pathology); HUMAN; INSULIN (therapeutic use); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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CELLULOSE (metabolism); COLONIC DISEASES (metabolism); CORONARY DISEASE (metabolism); DIABETES MELLITUS (metabolism); DIETARY FIBER (metabolism); HUMAN.

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ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCOSE (metabolism); INTESTINAL ABSORPTION (drug effects); INTESTINAL MUCOSA (drug effects); JEJUNUM (drug effects, metabolism); KINETICS; RATS; THEOPHYLLINE (pharmacodynamics); WATER (metabolism).

GLUCOSE ACCUMULATION BY RINGS OF SMALL INTESTINE FROM NORMAL AND SCHISTOSOME-INFECTED MICE. Vengesa BP, Leese HJ *Biochem Soc Trans* 4: 274-7, 1976 (Eng) *DL/77OCT246

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ADULT; BLOOD SUGAR; CARBOHYDRATES (metabolism); COMPARATIVE STUDY; CONTRACEPTIVES, ORAL (pharmacodynamics); CONTRACEPTIVES, ORAL, SEQUENTIAL (pharmacodynamics); ETHINYL ESTRADIOL (pharmacodynamics); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MESTRANOL (pharmacodynamics); PREGNANCY.

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ANIMAL; ATROPHY; FEMALE; GLUCOSE TOLERANCE TEST; INSULIN (secretion); MALE; MICE; MICE, INBRED CBA; NECROSIS; PANCREAS (pathology); PANCREATIC DISEASES (familial & genetic, pathology, transmission); PANCREATIC JUICE (secretion); TRYPSIN (secretion); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ENGLISH ABSTRACT; HUMAN; INSULIN ANTIBODIES (isolation & purification); INSULIN (blood); RADIOIMMUNOASSAY (methods).

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ANIMAL; AUTOIMMUNE DISEASES (complications); CIRCADIAN RHYTHM; DIABETES MELLITUS (etiology, therapy); DIABETES MELLITUS, JUVENILE (etiology, immunology); DIABETIC ANGIOPATHIES (etiology); ENGLISH ABSTRACT; GLUCAGON (pharmacodynamics); HUMAN; INSULIN (biosynthesis); PANCREAS (physiopathology); RECEPTORS, INSULIN; VIRUS DISEASES (complications).

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ADULT; ARGININE (diagnostic use); BLOOD SUGAR (physiology); GLUCAGON (diagnostic use); GLUCOSE (diagnostic use); HUMAN; INSULIN (blood); ISOPROTERENOL (diagnostic use); KINETICS; MALE; SECRETIN (diagnostic use); TOLBUTAMIDE (diagnostic use); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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CHRONIC DISEASE; CORONARY DISEASE (metabolism); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (metabolism); MALE; MIDDLE AGE.

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[TREATMENT OF NEONATAL HYPOGLYCEMIA] Levi N, Stormi M, Ramo P, Macagno F *Minerva Pediatr* 29: 709-10, 24 Mar 77 (Ita) DL/77OCT549

GLUCOSE (therapeutic use); HUMAN; HYPOGLYCEMIA (drug therapy); INFANT, NEWBORN; INFANT, NEWBORN, DISEASES (drug therapy); INFANT, PREMATURE, DISEASES (drug therapy).

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EXPERIMENTAL PANCREATIC CARCINOGENESIS. I. MORPHOGENESIS OF PANCREATIC ADENOCARCINOMA IN THE SYRIAN GOLDEN HAMSTER INDUCED BY N-NITROSO-BIS(2-HYDROXY-YPROPYL)AMINE. Levitt MH, Harris CC, Squire R, Springer S, Wenk M, Mollieo C, Thomas D, Kingsbury E, Newkirk C *Am J Pathol* 88: 5-28, Jul 77 (Eng) DL/77OCT694

ADENOCARCINOMA (chemically induced, pathology); ANIMAL; CYSTADENOMA (pathology); CYSTADENOMA, PAPILLARY (pathology); EPITHELIAL CELLS (ultrastructure); HAMSTERS; ISLANDS OF LANGERHANS (pathology); MALE; NEOPLASMS, EXPERIMENTAL (chemically induced, pathology); NITROSAMINES; PANCREATIC DUCTS (pathology, ultrastructure); PANCREATIC NEOPLASMS (chemically induced, pathology); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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LYMPHOCYTE TRANSFORMATION; MICE; POLYCYTHEMIA (blood).

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Ling N

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ADULT; BLOOD CIRCULATION; DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; HUMAN; LEG (blood supply); PLETHYSMOGRAPHY, IMPEDANCE.

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ADULT; DIABETES MELLITUS (physiopathology); ENGLISH ABSTRACT; EXERTION; HEART (physiopathology); HUMAN.

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ACETON DEHYDROGENASE (biosynthesis); ACETOIN (metabolism); ALCOHOL OXIDOREDUCTASES (biosynthesis); *BACILLUS SUBTILIS* (enzymology); CARBOHYDRATES (metabolism); ENZYME INDUCTION; ENZYME REPRESSION; FRUCTOSE (metabolism); GLUCOSE (metabolism); SORBITOL (metabolism).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADIPOSE TISSUE (enzymology); AMMONIA (pharmacodynamics); ANIMAL; CALCIUM CHLORIDE (pharmacodynamics); ENZYME ACTIVATION; HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LIPASE (isolation & purification, metabolism); LIPOPROTEIN LIPASE (metabolism); MALE; MOLECULAR WEIGHT; PROTEIN KINASE (metabolism); RATS; SERUM ALBUMIN, BOVINE (pharmacodynamics); SODIUM CHLORIDE (pharmacodynamics); TRIGLYCERIDES.

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DENTAL CARIES (chemically induced); DIABETES MELLITUS (chemically induced); DIETARY CARBOHYDRATES (adverse effects); HUMAN; OBESITY (chemically induced); SUCROSE (adverse effects).

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MEMBRANE (drug effects, metabolism);
EPITHELIAL CELLS (drug effects, metabolism);
HYDROGEN-ION CONCENTRATION
(physiology); KIDNEY CORTEX (metabolism);
KIDNEY TUBULES, PROXIMAL (metabolism);
KINETICS; MATHEMATICS; MODELS,
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HUMAN; LUNG DISEASES, FUNGAL;
MUCORMYCOSIS (diagnosis, etiology, therapy);
RISK.

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(drug effects, metabolism); CHICKENS;
DOPAMINE (pharmacodynamics); DOSE-
RESPONSE RELATIONSHIP, DRUG;
HISTAMINE (pharmacodynamics); IN VITRO;
MALE; MICE; NOREPINEPHRINE
(pharmacodynamics); PHOSPHODIESTERASES
(antagonists & inhibitors); PROPRANOLAMINES
(pharmacodynamics); PROSTAGLANDINS E
(pharmacodynamics); RO 20-1724
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(pharmacodynamics); 3,5-CYCLIC AMP
PHOSPHODIESTERASE (antagonists &
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TIFICIAL PANCREAS.** Marliass EB, Murray FT,
Stokes EF, Zinman B, Nakhooda AF, Denoga A,
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HYPERINSULINISM (chemically induced,
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**[BEDSIDE NURSING. DIETARY INSTRUCTION
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WITH SUBNORMAL INTELLIGENCE]**
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BLOOD SUGAR (metabolism); DOGS; ENGLISH
ABSTRACT; FEMALE; HEPATIC COMA
(blood); LIGATION; LIVER (blood supply,
metabolism); MALE; OXYGEN
CONSUMPTION; PORTACAVAL
ANASTOMOSIS; TIME FACTORS.

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AGE FACTORS; BLINDNESS (etiology); DIABETES MELLITUS (complications); DIABETES MELLITUS, JUVENILE (complications); DIABETIC RETINOPATHY (complications, etiology, therapy); FEMALE; HUMAN; HYPOPHYSECTOMY; LIGHT COAGULATION; MALE; RETINA (physiopathology); RETINAL VESSELS (physiopathology); SMOKING (complications); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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PSYCHOSOMATIC ASPECTS OF CATECHOLAMINE DEPLETION: COMPARATIVE STUDIES OF METABOLIC, ENDOCRINE AND AFFECTIVE CHANGES. Paterly G, Pinter EJ, Pattee CJ *Psychoneuroendocrinology* 1: 243-53, 1976 (Eng) *DL/77OCT117

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SOMATOSTATIN MODULATION OF PANCREATIC GLUCAGON, INSULIN, GLUCOSE AND FREE FATTY ACIDS FOLLOWING BETA-ADRENERGIC STIMULATION. Raptis S, Escobar-Jimenez F, Rosenthal J, Ditschuneit HH, Pfeiffer EF *J Clin Endocrinol Metab* 44: 1088-93, Jun 77 (Eng) DL/77OCT471

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ILE; CELL LINE; COLCHICINE ibolism, pharmacodynamics); MELATONIN macodynamics); MICROTUBULES (drug ts, metabolism); MITOSIS (drug effects); RONS (drug effects); TUBULIN ibolism); UNITED STATES ERNMENT SUPPORTED, N.I.H.).

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GLYCOPROTEINS (biosynthesis); LEUCINE
(metabolism); LIPIDS (analysis); LIPOPROTEINS
(immunology, metabolism); MALE; MEMBRANE
PROTEINS (biosynthesis); MEMBRANES
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ANIMAL; ATROPHY; DRUG ANTAGONISM; ENGLISH ABSTRACT; GLUCOSEPHOSPHATASE (metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE (metabolism); GLYCOGEN PHOSPHORYLASE (metabolism); HYDROCORTISONE (adverse effects, antagonists & inhibitors, pharmacodynamics); INSULIN (pharmacodynamics); LACTATE DEHYDROGENASE (metabolism); LIPIDS (metabolism); LIPOAMIDE DEHYDROGENASE (metabolism); MALE; MYOCARDIUM (metabolism, pathology); RATS; SUCCINATE DEHYDROGENASE (metabolism); SULFHYDRYL COMPOUNDS (metabolism).

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BLOOD SEDIMENTATION; ENGLISH ABSTRACT; FASTING; GLUCOSE (administration & dosage, pharmacodynamics); HEMOSTASIS (drug effects); HUMAN;

INJECTIONS, INTRAVENOUS; PLATELET ADHESIVENESS (drug effects); PLATELET AGGREGATION (drug effects); THROMBOPLASTIN.

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ADIPOSE TISSUE (metabolism); ADULT; BIOPSY; BODY FLUIDS (metabolism); BODY WATER (analysis, metabolism); COMPARATIVE STUDY; EXTRACELLULAR SPACE (metabolism); FEMALE; HUMAN; INTRACELLULAR FLUID (metabolism); LIPIDS (analysis); MALE; MESENTERY; METHODS; MODELS, BIOLOGICAL; OBESITY (metabolism); SKIN.

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HEMODIALYSIS; HUMAN; HYPERTENSION (complications); HYPOGLYCEMIC AGENTS (therapeutic use); INSULIN (therapeutic use); KIDNEY FAILURE, ACUTE (therapy); PERITONEAL DIALYSIS; PROGNOSIS.

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ADULT; CHOLESTEROL (blood); COLESTIPOL (pharmacodynamics, therapeutic use); FEMALE; HUMAN; HYPERCHOLESTEREMIA (blood, drug therapy); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (analysis, blood); MALE; MIDDLE AGE; POLYAMINES (pharmacodynamics); TRIGLYCERIDES (blood); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ADENINE NUCLEOTIDE TRANSLOCASE (metabolism); ADENOSINE TRIPHOSPHATASE (metabolism); ADENOSINE TRIPHOSPHATE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CARBOXYLIC ACIDS (metabolism); CHLORIDES (metabolism); COENZYME A (analogs & derivatives, metabolism, pharmacodynamics); FATTY ACIDS (pharmacodynamics); MITOCHONDRIA (drug effects, metabolism); MODELS, BIOLOGICAL; NADH, NADPH OXIDOREDUCTASES (metabolism); OXYGEN CONSUMPTION (drug effects); PERMEABILITY; PHOSPHATES (metabolism); STRUCTURE-ACTIVITY RELATIONSHIP.

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NUTRITION, SOMATOMEDIN AND GROWTH.

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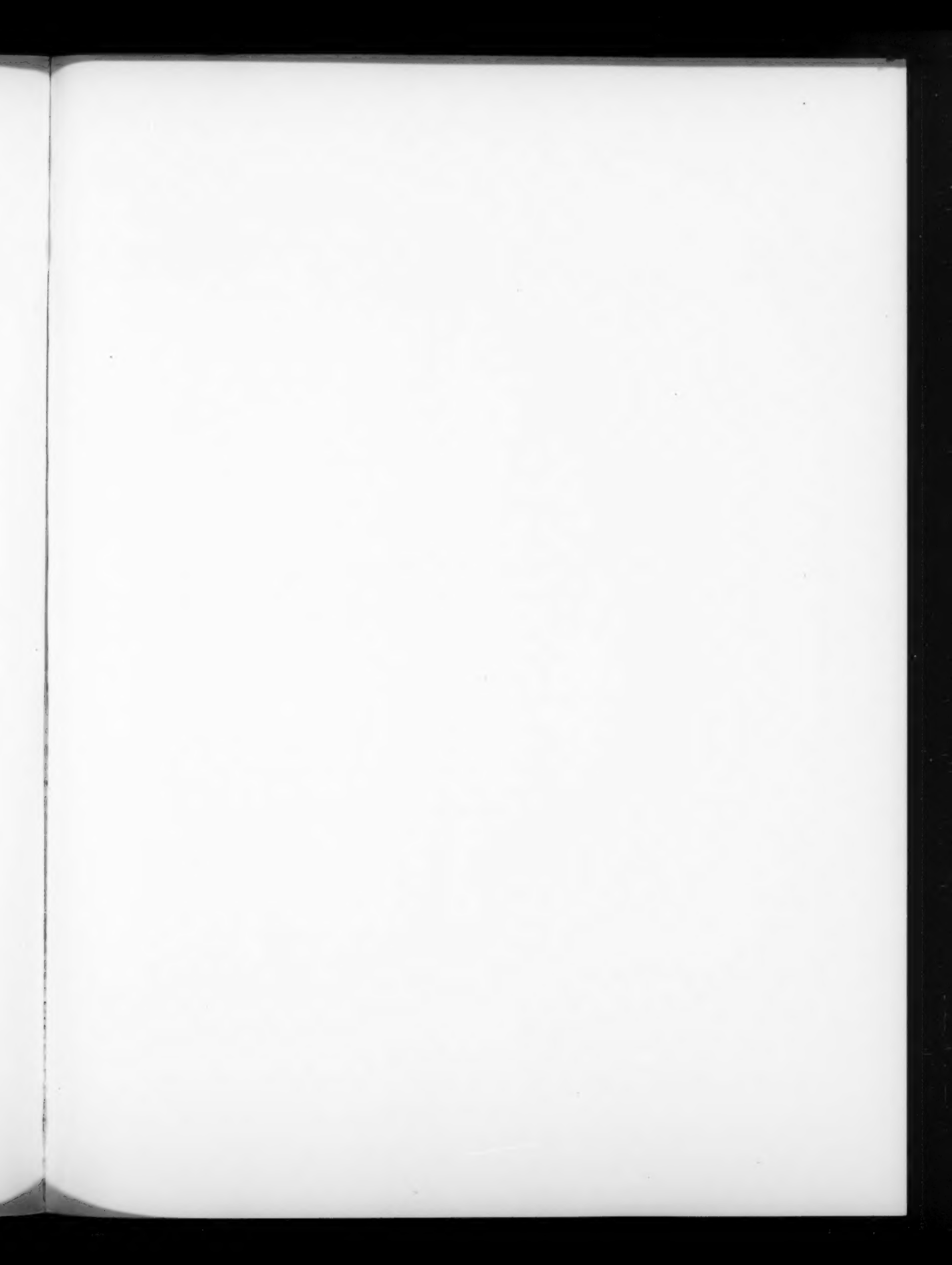
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FASTING; INSULIN (blood); RATS; REVIEW;
SOMATOMEDIN (metabolism);
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